

Notice of Allowability

Application No.

09/695,974

Examiner

Zia R. Hashmi

Applicant(s)

HAYASHI ET AL.

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/17/03.
2. ☒ The allowed claim(s) is/are 1 and 3-8.
3. ☒ The drawings filed on 26 October 2000 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
 - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No. _____.
 - (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
 - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 1 <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____ |
| 3 <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No. _____ | 7 <input type="checkbox"/> Examiner's Amendment/Comment |
| 4 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9 <input type="checkbox"/> Other |

DETAILED ACTION

Allowable Subject Matter

1. In response to Office Action of July 16, 2003, an "Amendment" was received on November 11, 2003. Independent claim 1 has been amended and claim 2 has been canceled.

2. Claims 1 and 3-8 are allowed.

3. The following is an examiner's statement of reasons for allowance:

With respect to independent claim 1, prior art fails to disclose an electromagnetic (EM) wave absorber comprising: a wave-absorbing body and a supporting base plate, wherein the wave-absorbing body is formed by fitting at least one polygonal wave-absorbing plate having notches in an upper and lower portions, and latched into each other through the notches in a crossing manner.

In the prior art relating to EM wave absorbers for use in anechoic chambers, full and hollow type carbon absorbers are well known. In case of full absorbers, it is very difficult to produce carbon absorbers of 1.5-2 meters in length, and supporting such absorbers with wave-reflecting materials is not acceptable in a wave-absorbing chamber. In case where the shorter, pyramid or wedge-shaped carbon absorber having a small base area are used, the predetermined area increases per unit of the absorber. With respect to hollow-type carbon absorbers, the assembling steps are increased with the number of absorbers, thereby increasing the cost. An additional problem is the

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requirement of the EM absorber to have heat resistant and flame retarding properties, since EM energy of the waves is converted into thermal energy.

The current claimed invention provides a flame-retardant EM absorber that exhibits excellent wave absorbing properties, and can be easily assembled. The inventors have found that an EM absorber, which is produced by forming a wave-absorbing body in a pyramid shape by fitting a plurality of wave-absorbing plates into each other and disposing a base plate on the bottom, exhibits excellent wave-absorbing properties, formability and flame retardation.

Claims 3-8 are allowed by virtue of their dependencies on the independent claim 1.

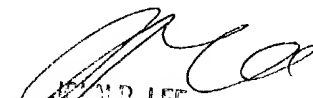
Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zia Hashmi whose telephone number is (703) 305-0419. The examiner can normally be reached between 8.30 AM- 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on (703) 308-4116.

Zia Hashmi

January 6, 2004.


JOHN R. LEE
SUPERVISOR OF THE EXAMINER
JAN 13 2004